

Challenger

MT500D Small Frame Series
SPECIFICATIONS



Challenger

MODELS	MT515D	MT525D	MT535D	MT545D
ENGINE PERFORMANCE (CVT & AUTOPOWER VI)				
PTO HP @ 2,100-rated engine rpm (kW)	110 (83)	120 (90)*	120 (90)	130 (98)
ISO engine HP @ 2,100-rated engine rpm (kW)	130 (98)	140 (105)	150 (113)	165 (124)
Maximum Power Bulge	9.4%	9.4%	9.3%	9.2%
ENGINE				
Rated speed (rpm)	2,100			
Maximum torque rise	35%			
Maximum power bulge	15 hp			
Type	AGCO POWER™			
Model	66 CTA			
Number of cylinders	6			
Aspiration	Turbocharged with air/air intercooler			
Displacement liters (CID)	6.6 (402)			
Compression Ratio	6.6 = 17.4:1			
Fuel Injection System	Bosch High Pressure Common-Rail, Electronic; Injectors with Variable Injection Timing and Duration			
Fuel	Diesel			
Fuel Filter	Replaceable Filter - 30µ Prefilter - 5µ Main Filter			
Lubrication System	Gear Pump at Bottom of Timing Gear			
Oil Filter	Single, Spin On			
Starting Aid	Thermostart			

ALL MODELS	
TRANSMISSION – TECHSTAR CVT (CONTINUOUSLY VARIABLE TRANSMISSION)	
Clutches	None
Speed Range – mph (km/h)	0.02 – 31 (0.03 – 50)
Forward Speeds	Infinite
Cruise Control Speeds	2
TRANSMISSION – AUTOPOWER VI (PARTIAL POWERSHIFT)	
Clutches	5 discs
Ranges	4 Ranges / 6 Powershifts
Speed Range – mph (km/h)	1.11 – 30.6 (1.78 – 49.26)
Forward Speeds	24 Forward / 24 Reverse
Cruise Control Speeds	2
TRANSMISSION – AUTOPOWER IV (PARTIAL POWERSHIFT)	
Ranges	4 Ranges / 4 Powershifts
Speed Range – mph (km/h)	1.34 – 25.6 (2.17 – 41.16)
Forward Speeds	16 Forward / 16 Reverse
Cruise Control Speeds	2
PTO	
Speed (rpm)	540/540E/1000/1000E

*With AutoPower IV
[110 rpm (83 kW) with AutoPower VI or TechStar CVT]

ALL MODELS	
HYDRAULICS	
System type	Closed Center Load Sensing (CCLS)
Total flow rate - US standard gallon (L)	29 (110); optional – 39 (150)
Maximum pressure PSI (bar)	2,900 (200)
Available flow rate per spool valves gpm (L/min)	24.3 GPM (92 LPM)
Remotes	
Classic – standard	1-2-3 Mechanical
Classic – optional	4th mechanical
Deluxe – standard	1-2 electric fingertips (joystick optional), 3-4 mechanical
Premium – standard	1-2-3-4 electric, all fingertips (joystick optional on 1-2)
Premium – optional	5th electric valve option on Premium AutoPower VI model only, 1-2 electric joystick
Hydraulic Couplers	Decompression Couplers with Connect/Disconnect Under Pressure Function
Coupler Size	ISO 1/2"
THREE-POINT HITCH – REAR	
Category 3 With Fixed Ball End Links with Cat 3 Quick Hitch	Standard
Category 3 With Fixed Ball End Links without Quick Hitch	Optional
Stabilizers	Rub Block on AutoPower VI, Variable Telescoping on TechStar CVT
Lift Capacity 24" back of the pin	12,500 for AutoPower VI models, 11,650 for all TechStar CVT models
THREE-POINT HITCH – FRONT	
Category 3	Optional
FRONT AXLE	
2-wheel drive	N/A
4-wheel drive differential lock	Full-locking, electrohydraulic standard
4-wheel drive maximum steering angle	55°
Quadlink front axle suspension	Standard on Deluxe and Premium versions
Quadlink differential lock	Full-locking, electrohydraulic
CAPACITIES	
Fuel Tank – gal (L)	82 (310)
Diesel Exhaust Fluid – gal (L)	8 (30)
Hydraulic Reservoir Capacity – gal (L)	26.4 (100)
DIMENSIONS & WEIGHT	
Wheelbase – in. (mm)	113.1 (2,874)
Approx. shipping weight – lbs. (kg)	15,060 (6,830)
Max. Allowable Weight – lbs. (kg)	25,353 (11,500)

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